

CENTRAL INTELLIGENCE AGENCY

REPORT

CD NO.

COUNTRY USSR

DATE OF INFORMATION 1950

SUBJECT Economic; Technological - Tractor industry

HOW PUBLISHED Daily newspapers; monthly periodical

DATE DIST. 5 Oct 1950

WHERE
PUBLISHED USSR

NO. OF PAGES 3

DATE
PUBLISHED 1 May - 22 Jul 1950

SUPPLEMENT TO
REPORT NO.

LANGUAGE Russian

THIS IS UNEVALUATED INFORMATION

SOURCE Newspapers and periodical as indicated

TRACTOR DELIVERY DELAYED; TWO-SHIFT OPERATION PUSHED AT KBARKOV PLANT

LACK OF TIRES HOLDS UP TRACTOR DELIVERY -- Komsomol'skaya Pravda, 4 Jun 50

The Omsk Tire Plant is not fulfilling its contract with the Kharkov Tractor Plant. Dozens of KMTZ-7 tractors are standing in storage at the plant awaiting tires from Omsk. So far in the second quarter, only 70 sets of tires have been received.

SOME SECTIONS DROP THIRD SHIFT -- Pravda Ukrainy, 22 Jul 50

The chassis shop of the Kharkov Tractor Plant, which is short of personnel, has decided to follow the example set by Mednikov, a machine-tool operator who managed to double his output and thereby reduce the number of shifts for his machine tool. Several sections in the shop are now operating in two shifts instead of three, while maintaining the production schedule.

Pravda Ukrainy, 22 Jul 50

In the past 6 months the Kharkov Tractor Plant imeni Ordzhonikidze has saved large quantities of metal and millions of kilowatt-hours of electric power. The movement initiated by Mednikov and Manoylova to eliminate one shift in their sections through more rational use of machine tools has already freed more than 400 workers for other tasks.

TRACTOR PLANT CELEBRATES 20TH ANNIVERSARY -- Zarya Vostoka, 9 Jul 50

The Stalingrad Tractor Plant imeni Dzerzhinsky has just celebrated its 20th anniversary. It was the first tractor plant built in the Soviet Union and was designed to produce 50,000 tractors a year.

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BURYAT-MONGOL ASSR GETS NEW TRACTORS -- Mashino-Traktornaya Stantsiya, No 7,
Jul 50

This year, the Buryat-Mongol ASSR received new tractors from the Altay
Tractor Plant.

DYNAMOMETER CHECKS PERFORMANCE OF TRACTORS -- Mashino-Traktornaya Stantsiya,
No 5; May 50

The Georgian Agricultural Institute imeni L. P. Beriia has designed a
dynamometer which checks tractors under operating conditions for load and
technical performance by measuring torque. The power element of the mechanism
is placed between the crankshaft and transmission, while the meter is located
in front of the driver's seat. One indicator registers the torque and another
the revolutions of the shaft.

GIVE SPECIFICATIONS OF DT-54 TRACTOR -- Mashino-Traktornaya Stantsiya, No 7,
Jul 50

The new DT-54 Diesel caterpillar tractor, which is based on the SKhTZ-NATI
caterpillar tractor, is a more perfect, more economical, and better wear-resist-
ing machine than the SKhTZ-NATI. It is a general-purpose tractor having the fol-
lowing specifications:

Total length, including hook - 3,663 mm
Width - 1,860 mm
Height - 2,346 mm
Track - 1,435 mm
Road clearance - 255 mm
Weight under working conditions - 5,400 kg
Rated speeds (km/hr):

1st gear	- 3.592
2d "	- 4.647
3d "	- 5.429
4th "	- 6.286
5th "	- 7.903
Reverse	- 2.395

Rated traction force on hook (kg):

In 1st gear	- 2,919
2d "	- 2,160
3d "	- 1,788
4th "	- 1,486
5th "	- 1,003

The tractor has a four-cycle compressorless Diesel engine, specifications
as follows:

Cylinder diameter - 125 mm
Piston stroke - 152 mm
Total fuel capacity - 7.45
Compression ratio - 16
Power - 54 hp at 1,300 rpm
Fuel consumption - 215-220 g/hp/hr
Crankcase lubrication - Diesel oil with an admixture of AZNII-4

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The four cylinders are in-line. They cylinder sleeves have been pressed from a single block, as in the kerosene engine of the SKhTZ-NATI tractor.

The cylinders are of cast iron with hardened working surfaces. Their wear resistance is about $2\frac{1}{2}$ times as high as that of the kerosene engine.

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